

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A computer readable medium storing a computer program configured for execution by a personal computer (PC) and comprising:

program instructions to create event translators that translate incoming input events to said PC into translated input events according to user-defined translation behaviors;

program instructions ~~to enable a user~~ to associate each event translator with a type of incoming input event responsive to user input; and

program instructions ~~to enable a user~~ to configure a translation behavior for each event translator responsive to user input, such that [[it]] during execution of the computer program by the PC the event translator generates a desired translated input event responsive to receiving an incoming input event to said PC of the type of incoming input event associated with the event translator, including program instructions to define a translation function that modifies incoming input events to said PC according to one or more user-configured functions.

2. (Currently amended) The computer readable medium storing a computer program of claim 1, wherein program instructions to create event translators that translate incoming input events to said PC into translated input events according to user-defined translation behaviors comprise program instructions to create one or more operating system hooks to detect event messages associated with incoming input events corresponding to one or more types of computer input devices.

3. (Currently amended) The computer readable medium storing a computer program of claim 1, wherein program instructions to create event translators that translate incoming input events to said PC into translated input events according to user-defined translation behaviors

comprise program instructions to create one or more operating system hooks to receive event messages associated with incoming input events corresponding to one or more types of computer input devices.

4. (Currently amended) The computer readable medium storing a computer program of claim 1, wherein program instructions to ~~enable a user to configure a translation behavior for each event translator~~ responsive to user input ~~such that it generates a desired translated input event responsive to receiving an incoming input event of the type of incoming input event associated with the event translator~~ comprises program instructions to define an incoming-to-translated input event mapping that sets the type of translated input event to be generated.

5. (Canceled)

6. (Currently amended) The computer readable medium storing a computer program of claim 1, wherein program instructions to ~~enable a user to configure a translation behavior for each event translator~~ responsive to user input ~~such that it generates a desired translated input event responsive to receiving an incoming input event of the type of incoming input event associated with the event translator~~ comprises program instructions to determine whether the incoming input event is swallowed or passed-through.

7. (Currently amended) The computer readable medium storing a computer program of claim 1, wherein program instructions to ~~enable a user to configure a translation behavior for each event translator~~ responsive to user input ~~such that it generates a desired translated input event responsive to receiving an incoming input event of the type of incoming input event associated with the event translator~~ comprises program instructions to determine whether the

incoming input event causes a one-shot translated input event or causes a repeating translated input event.

8. (Currently amended) The computer readable medium storing a computer program of claim 1, wherein program instructions to enable a user to configure a translation behavior for each event translator responsive to user input ~~such that it generates a desired translated input event responsive to receiving an incoming input event of the type of incoming input event associated with the event translator~~ comprises program instructions to determine whether the incoming input event triggers an activation of or a focus shift to a targeted program.

9. (Currently amended) The computer readable medium storing a computer program of claim 1, further comprising program instructions to display a graphical user interface on a display screen of ~~a computer system associated with the computer readable medium~~ said PC, and wherein the graphical user interface is configured to enable a user to graphically define one or more event translators, and graphically link one or more selected incoming input events to one or more translated input events through the one or more graphically defined event translators.

10. (Original) The computer readable medium storing a computer program of claim 9, wherein the graphical user interface is configured to present a user with visual depictions of available incoming input event types and to enable the user to drag-n-drop selected ones of those incoming input event types into an input event field, and into a translated input event field, and to make desired event translation connections between respective incoming input events in the input event field and respective translated input events in the translated input event field.

11. (Currently amended) A method of adapting a personal computer (PC), such that its response to one or more types of input events is modified according to user-configured event translation behavior, the method comprising:

defining one or more event translators for execution by said PC, wherein each event translator maps incoming input events to said PC of a selected type into translated input events according to a defined translation behavior, wherein the defined translation behavior includes modifying one or more event parameters of the incoming input events;

configuring the defined translation behavior for each event translator based on user input to the PC; and

detecting ~~incoming~~ input events of the selected types incoming to the PC and translating those incoming input events into corresponding translated input events according to the defined translation behaviors of the one or more event translators.

12. (Currently amended) A method of modifying input event behavior in a personal computer (PC), the method comprising:

defining one or more event translators for execution by said PC and associating each event translator with a selected type of incoming input event to said PC, responsive to input by a user;

defining a translation behavior of each event translator responsive to input by a user, including defining a translation function that modifies incoming input events to said PC according to one or more user-configured functions; and

generating translated input events in said PC based on executing associated ones of the event translators responsive to detecting incoming input events to said PC of the selected types.

13. (Currently amended) The method of claim 12, wherein generating translated input events in said PC based on executing associated ones of the event translators responsive to detecting incoming input events to said PC of the selected types comprises:

detecting operating system events of said PC that are associated with the selected types of incoming input events; and

for each detected incoming input event of a selected type, translating that incoming input event according to the translation behavior defined for the associated event translator or translators.

14. (Currently amended) A computer readable medium storing a computer program, the computer program configured for execution on a personal computer (PC) and comprising:

program instructions to enable a user to select a type of input event to said PC from a plurality of input event types;

program instructions to determine whether a given input event to said PC occurring during execution of the computer program by said PC matches the selected type of input event; and

program instructions to perform a desired input event translation by processing the given input according to one or more input event translation rules if the given input event matches the selected type of input event, said desired input event translation including a translation function that modifies incoming input events according to one or more user-configured functions.

15. (Currently amended) The computer readable medium storing a computer program of claim 14, wherein the computer program comprises a WINDOWS-based program configured for execution on a WINDOWS-based ~~computer~~ PC.

16. (Currently amended) The computer readable medium storing a computer program of claim 14, wherein the program instructions to enable a user to select a type of input event to said PC from a plurality of input event types comprise program instructions to enable selection from a plurality of event types include two or more of mouse events, keyboard events, MIDI events, Universal Serial Bus device events, RS-232 serial bus events, game port events, audio input events, analog input events, and infrared port events.

17. (Original) The computer readable medium storing a computer program of claim 14, wherein the program instructions program instructions to perform a desired input event translation by processing the given input according to one or more input event translation rules if the given input event matches the selected type of input event comprise program instructions to perform one or more of a plurality of translations comprising a re-mapping of the given input event type to one or more other input event types, a time-delay of the given input event, a parameter modification of the given input event, a swallowing of the given input event to hide it from one or more other computer processes, and a swallowing of the given input event to hide it from additional event translation processing.

18. (Original) The computer readable medium storing a computer program of claim 14, wherein the program instructions to perform a desired input event translation by processing the given input according to one or more input event translation rules if the given input event matches the selected type of input event comprise program instructions to re-map input events of the selected type into input events of at least one other type.

19. (Previously presented) The computer readable medium storing a computer program of claim 14, wherein said translation function that modifies incoming input events according to one

or more user-configured functions comprises program instructions to modify one or more event parameters of input events of the selected type.

20. (Original) The computer readable medium storing a computer program of claim 14, wherein the program instructions to perform a desired input event translation by processing the given input according to one or more input event translation rules if the given input event matches the selected type of input event comprise program instructions to time-delay input events of the selected type according to a desired time delay value.

21. (Previously presented) The computer readable medium storing a computer program of claim 1, wherein including program instructions to define a translation function that modifies incoming input events according to one or more user-configured functions comprises including program instructions to modify one or more event parameters of the incoming input events.

22. (Previously presented) The computer readable medium storing a computer program of claim 21, wherein the program instructions to modify one or more event parameters of the incoming input events comprise program instructions to apply a user-configured mathematical function at least to selected types of incoming input events.

23. (New) The computer readable medium storing a computer program of claim 21, wherein the program instructions to modify one or more event parameters of the incoming input events comprise program instructions to apply a user-configured mathematical scaling to one or more event parameters of a user-selected type of incoming input event, to thereby create corresponding translated input events of the same user-selected type, but with one or more scaled event parameters.

24. (New) The computer readable medium storing a computer program of claim 14, wherein the program instructions program instructions to perform a desired input event translation by processing the given input according to one or more input event translation rules if the given input event matches the selected type of input event comprise program instructions to swallow the given input event to hide it from one or more other computer processes, or to swallow the given input event to hide it from additional event translation processing.